



International application No.
PCT/JP03/15109

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ H01L27/146, G01T1/24					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ H01L27/14-27/146, G01T1/24					
Documentat	ion speeched other than minimum documentation to the	a autont that such documents are included	in the fields caprobed		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004					
Electronic d	ata base consulted during the international search (nam	ne of data base and, where practicable, sear	rch terms used)		
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap		Relevant to claim No.		
X Y	JP 62-86756 A (Shingijutsu K 21 April, 1987 (21.04.87), Full text; Figs. 1 to 3 (Family: none)	Kaihatsu Jigyodan),	1,2 3-11		
X Y	JP 61-141177 A (Hamamatsu Photonics Kabushiki Kaisha), 28 June, 1986 (28.06.86), Full text; Figs. 1 to 12 (Family: none)		9 3-8,10,11		
Y	KAISHA), 02 November, 2000 (02.11.00), Full text; Figs. 1 to 7 & WO 00/26966 A1 Full text; Figs. 1 to 7	PTONICS KABUSHIKI , 6384396 B1	4-8,11		
× Furthe	er documents are listed in the continuation of Box C.	See patent family annex.			
"A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of Date of the actual completion of the international search		priority date and not in conflict with the understand the principle or theory understand to particular relevance; the considered novel or cannot be considered to involve an inventive step combined with one or more other such combination being obvious to a person document member of the same patent for the same patent of the same patent of the same patent for t	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family e of mailing of the international search report 09 March, 2004 (09.03.04)		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
Facsimile No.		Telephone No.			



INTERNATIONAL SEARCH REPORT

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(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		15 m
Category*	Citation of document, with indication, where appropriate, of the releva	int passages	Relevant to claim No.
Y .	EP 1173007 A2 (CANON KABUSHIKI KAISHA), 16 January, 2002 (16.01.02), Full text; Figs. 1 to 32 & JP 2002-90462 A Full text; Figs. 1 to 32 & US 2002/0017611 A1	4-8,11.	
A	JP 11-122533 A (Sharp Corp.), 30 April, 1999 (30.04.99), Full text; Figs. 1 to 12 (Family: none)		4,8
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